OM protein - nucleic search, using frame plus p2n model

Run on: September 3, 2005, 01:56:21; Search time 4713 Seconds

(without alignments)

4318.097 Million cell updates/sec

Title: US-10-735-256-2

Perfect score: 2226

Sequence: 1 MLPGLRRLLQAPASACLLLM.....LSAGLPSPLLCLLLLVPHHL 420

Scoring table: BLOSUM62

Xgapop 10.0 , Xgapext 0.5 Ygapop 10.0 , Ygapext 0.5 Fgapop 6.0 , Fgapext 7.0 Delop 6.0 , Delext 7.0

Searched: 4708233 seqs, 24227607955 residues

Total number of hits satisfying chosen parameters: 9416466

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

-MODEL=frame+ p2n.model -DEV=xlp

Q=/cgn2_1/USPTO_spool_p/US10735256/runat_02092005_124751_8912/app_query.fasta_1.

-DB=GenEmbl -QFMT=fastap -SUFFIX=p2n.rge -MINMATCH=0.1 -LOOPCL=0 -LOOPEXT=0

-UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi -LIST=45

-DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15 -MODE=LOCAL

-OUTFMT=pto -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000

-USER=US10735256 @CGN 1 1 5600 @runat 02092005 124751 8912 -NCPU=6 -ICPU=3

-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG

-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6

-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : GenEmbl:*

1: gb_ba:*

2: gb htg:*

3: gb in:*

4: gb_om:*

5: gb_ov:*

6: gb_pat:*

7: gb_ph:*

8: gb_pl:*

9: gb_pr:*

10: gb_ro:*

11: gb_sts:*
12: gb_sy:*
13: gb_un:*
14: gb_vi:*

ક

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

_	٠.		70				
Resi			Query			•	
1	No.	Score	Match	Length	DB	ID	Description
			-				
	1	2226	100.0	1260	6	AX411529	AX411529 Sequence
	2	2226	100.0	1263	6	AX751514	AX751514 Sequence
	3	2226	100.0	1263	9	AF532858	AF532858 Homo sapi
	4	2220	99.7	1263	9	AY250221	AY250221 Homo sapi
	5	2130	95.7	1263	6	AX751537	AX751537 Sequence
	6	2130	95.7	1304	10	AF532860	AF532860 Rattus no
	7	2118	95.1		10	AY250220	
				1263			AY250220 Mus muscu
	8	1866.5	83.8	1075	6	CQ728617	CQ728617 Sequence
	9	1342.5		143899	2	AC013606	AC013606 Homo sapi
	10	1342.5		143899	6	AX411543 ·	AX411543 Sequence
	11	1342.5		165434	2	AC087505	AC087505 Homo sapi
	12	1342.5	60.3	178000	9	AP002893	AP002893 Homo sapi
	13	1342.5	60.3	187566	2	AC015685	AC015685 Homo sapi
1	14	1280	57.5	214711	2	AC108295	AC108295 Rattus no
С	15	1280	57.5	236864	2	AC096003	AC096003 Rattus no
	16	1272.5	57.2	196786	2	AC102636	AC102636 Mus muscu
C	17	1272.5	57.2	199873	10	AL928914	AL928914 Mouse DNA
С	18	1272.5		221951	10	AC122857	AC122857 Mus muscu
	19	999.5	44.9	1486	5	AY263334	AY263334 Danio rer
	20	977.5	43.9	1565	5	AY263332	AY263332 Danio rer
	21	966.5		163986	2	CR812832	CR812832 Danio rer
	22	951		180865	2	BX908740	BX908740 Danio rer
	23	951	_	198219	2		
_					_	CR381666	CR381666 Danio rer
С	24	950		255441	2	AC128460	AC128460 Rattus no
	25	950		269285	2	AC120096	AC120096 Rattus no
	26	948	42.6	1326	9	AF532859	AF532859 Homo sapi
	27	948	42.6	1326	9	AY250219	AY250219 Homo sapi
	28	948	42.6	1436	6	AX713056	AX713056 Sequence
C	29	948	42.6	166138	9	AC099684	AC099684 Homo sapi
	30	948	42.6	202269	9	AC130689	AC130689 Homo sapi
	31	946	42.5	1404	10	AF532861	AF532861 Rattus no
	32	946	42.5	1407	. 6	AX713079	AX713079 Sequence
	33	946	42.5	1509	10	AY311478	AY311478 Rattus no
	34	931.5	41.8	3509	5	AY263333	AY263333 Danio rer
	35	921		209782	10	AL603905	AL603905 Mouse DNA
С	36	921		215980	6	AX411544	AX411544 Sequence
c	37	921		275598	2	AC021768	AC021768 Mus muscu
_	38	920.5	41.4	1383	6	AX411531	AX411531 Sequence
	39	916	41.4	1338	10	AY250218	AY250218 Mus muscu
_	40	916	41.2	2681	10	BC030471	BC030471 Mus muscu
С	41	910.5		194424	2	AC146871	AC146871 Xenopus t
	42	837.5	37.6	1176	6	AX411541	AX411541 Sequence
	43	826	37.1	157732	2	AC099825	AC099825 Papio ham

```
44 826 37.1 157944 9 AC092532 AC092532 Papio anu c 45 825.5 37.1 168239 9 AC007663 AC007663 Homo sapi
```

ALIGNMENTS

		• • • • • • • • • • • • • • • • • • • •	101111111111111111111111111111111111111				
RESULT 1							
AX411529							
LOCUS	AX411529	12	60 bp DN	JA 1	inear	PAT 14-JUN	-2002
DEFINITION	•	from Patent WOO	229059.				•
ACCESSION	AX411529	CT 2144412'4				•	
VERSION KEYWORDS	AX411529.1	GI:21444134					
SOURCE	Homo sapien	s (human)					
ORGANISM	Homo sapien						
		Metazoa; Chorda					ni;
		utheria; Primat	es; Catarrh	nini; Ho	minidae;	Homo.	
REFERENCE AUTHORS	1 Sah D W V	Cate, R.L. and	Strittmatte	~ C M			
TITLE	Nogo recepto		SCIICUMACCE	EI, S.M.			
JOURNAL		0229059-A 1 11-	APR-2002;				
	BIOGEN INC	(US)					
FEATURES		cation/Qualifie	rs				
source	-	.1260					
		rganism="Homo s ol type="unassi		•			
		b xref="taxon:9	•				
ORIGIN		_					
Alignment Se	cores:	1 000 105	Lamath	10			
Score:		1.89e-105 2226.00	Length: Matches:	42	60		
Percent Sim	ilarity:	100.00%	Conservati		. •		
Best Local		100.00%	Mismatches	3: 0			
Query Match	:	100.00%	Indels:	0			
DB:		6	Gaps:	0			
US-10-735-2	56-2 (1-420)	x AX411529 (1-	1260)				
0	3 Mart au Dane	71 T T T T		7 7 - 0			
Qy	Metheupro	GlyLeuArgArgLeu 	LeuGInAlaPr	roalaser	AlacysLe	uLeuLeumet	20
Db	1 ATGCTGCCC	GGCTCAGGCGCCTG	CTGCAAGCTCC	CCGCCTCG	GCCTGCCT	CCTGCTGATG	60
Qy		LeuProLeuAlaAla					40
Db							120
Qy		ValSerCysGlnAla					60
Db 1:							100
DD 1.	21 CCGCCCACC	G I GAGC I GCCAGGCC	AACAACIICIC	CICIGIG	CCGCIGIC	.CCTGCCACCC	100
Qy		ArgLeuPheLeuGln					80
Db · 1	81 AGCACTCAG	CGACTCTTCCTGCAG	AACAACCTCAT	rccgcacg	CTGCGGCC	AGGCACCTTT	240
Qy.	81 GlvSerAsn	LeuLeuThrLeuTrp	LeuPheSerAs	snAsn1.eu	SerThrT1	eTvrProGlv	100
~1							

OM protein - nucleic search, using frame plus p2n model

Run on: September 3, 2005, 01:05:36; Search time 619 Seconds

(without alignments)

4016.626 Million cell updates/sec

Title: US-10-735-256-2

Perfect score: 2226

Sequence: 1 MLPGLRRLLQAPASACLLLM.....LSAGLPSPLLCLLLLVPHHL 420

Scoring table: BLOSUM62

Xgapop 10.0 , Xgapext 0.5 Ygapop 10.0 , Ygapext 0.5 Fgapop 6.0 , Fgapext 7.0 Delop 6.0 , Delext 7.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

-MODEL=frame+ p2n.model -DEV=xlp

Q=/cgn2_1/USPTO_spool_p/US10735256/runat_02092005_124750_8903/app_query.fasta_1.

-DB=N Geneseq 16Dec04 -QFMT=fastap -SUFFIX=p2n.rng -MINMATCH=0.1 -LOOPCL=0

-LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi

-LIST=45 -DOCALIGN=200 -THR_SCORE=pct -THR_MAX=100 -THR MIN=0 -ALIGN=15

-MODE=LOCAL -OUTFMT=pto -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000

-USER=US10735256 @CGN 1 1 708 @runat 02092005 124750 8903 -NCPU=6 -ICPU=3

-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG

-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6

-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : N_Geneseq_16Dec04:*

1: geneseqn1980s:*

2: geneseqn1990s:*

3: geneseqn2000s:*

4: geneseqn2001as:*

5: geneseqn2001bs:*

6: geneseqn2002as:*

7: geneseqn2002bs:*

8: geneseqn2003as:*

9: geneseqn2003bs:*

10: geneseqn2003cs:*

11: geneseqn2003ds:*
12: geneseqn2004as:*
13: geneseqn2004bs:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

			*				
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1	No.	Score	Match	Length	DB	ID	Description
		2226	100.0	1260		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	70120222 Uman NaD
	1	2226	100.0	1260	6	AAL38333	Aal38333 Human NgR
	2	2226	100.0	1263	8	ACC70345	Acc70345 Nucleotid
	3	2226	100.0	1263	10	ADF28511	Adf28511 Neurologi
	4	2226	100.0	2182	10	ADF28509	Adf28509 NgRHy DNA
	5	2226	100.0	2182	13	ADS09832	Ads09832 Human the
	6	2186	98.2	1865	8	AAD51236	Aad51236 Human REM
	7	2181	98.0	1976	12	ADM72161	Adm72161 Human NTR
	8	2177	97.8	2565	10	ADE06964	Ade06964 Novel cod
	9	2130	95.7	1263	8	ACC70357	Acc70357 Nucleotid
	10	2127.5	95.6	2425	5	AAS79360	Aas79360 DNA encod
	11	2085	93.7	2499	10	ADF28508	Adf28508 NgRHy con Adc13558 Human NOV
	12 13	1822.5 1342.5	81.9	1598 143899	10 6	ADC13558	Adc13558 Human NOV Aal38336 Genomic s
	14		58.0	791	6	AAL38336	Abk34490 Human cDN
	15	1291 1281	57.5	1003	2	ABK34490 AAX30364	Aax30364 DNA encod
	16	1281	57.5	1003	10	ADB47736	Adb47736 Novel hum
	17	1281	57.5	1003	12	ADJ55291	Adj55291 Novel hum
	18	948	42.6	1436	8	AAL55323	Adj55291 Novel Hum Aal55323 Human NgR
	19	948	42.6	1539	12	ADN12046	Adn12046 Novel hum
	20	946	42.5	1407	8	AAL55338	Adilizo46 Rovel Hum Aal55338 Rat NgRH2
	21	946	42.5	1480	12	ADN12048	Adn12048 Novel rat
С	22	921		215980	6	AAL38337	Aal38337 Complemen
Ū	23	920.5	41.4	1383	6	AAL38334	Aal38334 Mouse NgR
	24	842	37.8	972	5	AAS79358	Aas79358 DNA encod
	25	837.5	37.6	1176	6	AAL38335	Aal38335 Partial h
	26	818.5	36.8	1973	12	ADQ85992	Adq85992 Human tum
	27	816.5	36.7	1719	4	AAS09451	Aas09451 Human cDN
	28	816.5	36.7	1719	9	ACC81046	Acc81046 Human Nog
	29	816.5	36.7	2138	12	ADQ23729	Adq23729 Human sof
	30	816.5	36.7	2236	2	AAZ34229	Aaz34229 Human PRO
	31	816.5	36.7	2236	3	AAC58591	Aac58591 Human PRO
	32	816.5	36.7	2236	3	AAC78557	Aac78557 Human PRO
	33	816.5	36.7	2236	3	AAA77613	Aaa77613 Human PRO
	34	816.5	36.7	2236	3	AAA49724	Aaa49724 Human PRO
	35	816.5	36.7	2236	4	AAS21434	Aas21434 Human cDN
	36	816.5	36.7	2236	5	AAC88958	Aac88958 Human PRO
	37	816.5	36.7	2236	5	AAC91467	Aac91467 Human PRO
	38	816.5	36.7	2236	8	ACA63797	Aca63797 Novel hum
	39	816.5	36.7	2236	8	ACA03793	Aca03793 cDNA enco
	40	816.5	36.7	2236	8	ACA71961	Aca71961 Human sec
	41	816.5	36.7	2236	8	ABX89331	Abx89331 DNA encod
	42	816.5	36.7	2236	8	ABX92601	Abx92601 cDNA enco
	43	816.5	36.7	2236	8	ACD41985	Acd41985 Human sec
	44	816.5	36.7	2236	8	ACA66342	Aca66342 Human cDN

ALIGNMENTS

```
RESULT 1
AAL38333
     AAL38333 standard; cDNA; 1260 BP.
XX
AC
    AAL38333;
XX
     15-AUG-2002 (first entry)
DT
XX
DE
    Human NgR2 cDNA sequence derived from genomic sequence AC013606.
XX
KW
     Cerebroprotective; neuroprotective; cytostatic; Nogo receptor homologue;
KW
     NgR2; NgR3; axonal growth; central nervous system; CNS; cerebral injury;
KW
     spinal cord injury; stroke; demyelinating disease; multiple sclerosis;
     monophasic demyelination; encephalomyelitis; Marchiafava-Bignami disease;
KW
KW
     multifocal leukoencephalopathy; panencephalitis; Spongy degeneration;
KW
     Alexander's disease; Canavan's disease; metachromatic leukodystrophy;
KW
     Krabbe's disease; immune; bait protein; genetic mapping; gene therapy;
KW
     transgenic animal; unregulated cellular growth; cancer; tumour; human;
KW
     gene; ss.
XX
OS
    Homo sapiens.
XX
                     Location/Qualifiers
FH
     Key
                     1. .1260
FT
     CDS
FT
                     /*tag= a
                     /product= "Protein of human NgR2"
FT
FT
                     /note= "No stop codon"
FT
     sig_peptide
                     1. .90
FT
                     /*tag= b
XX
PN
     WO200229059-A2.
XX
PD
     11-APR-2002.
XX
PF
     06-OCT-2001; 2001WO-US031488.
XX
PR
     06-OCT-2000; 2000US-0238361P.
XX
PA
     (UYYA ) UNIV YALE.
     (BIOJ ) BIOGEN INC.
PA
XX
PΙ
     Strittmatter SM, Cate RL,
                                 Sah DWY;
XX
DR
     WPI; 2002-416677/44.
DR
     P-PSDB; AAO21477.
XX
PT
     Novel Nogo receptor homolog polypeptide, NgR2 or NgR3, useful for
PT
     treating central nervous system disorder, cerebral injury, spinal cord
PT
     injury, stroke, and demyelinating diseases.
XX
PS
     Example 2; Page 103; 277pp; English.
XX
```

CC The invention relates to a Nogo receptor homologue polypeptide, NgR2 or CC NgR3, comprising a 50 amino acid LRRCT sequence, a 284 amino acid NTLRRCT CC sequence, or a 420, 461 or 392 amino acid sequence, all given in the CC specification. The NgR3 protein or its binding antibody is useful for CC decreasing inhibition of axonal growth of a central nervous system (CNS) CC neuron, by contacting the neuron NgR3 or its antibody, and for treating CC CNS disease, disorder or injury. NgR3 or a vector comprising NgR3 is CĊ useful for treating cerebral injury, spinal cord injury, stroke, CC demyelinating diseases, e.g. multiple sclerosis, monophasic CC demyelination, encephalomyelitis, multifocal leukoencephalopathy, CC panencephalitis, Marchiafava-Bignami disease, Spongy degeneration, CC Alexander's disease, Canavan's disease, metachromatic leukodystrophy and CC Krabbe's disease. NgR3 is useful for inducing an immune response in a CC mammal against NgR3, as a bait protein in a two-hybrid or three-hybrid CC assay, and as a research tool for identification, characterisation and CC purification of interacting, regulatory proteins. The nucleotide CC sequences of the invention are useful for screening for RFLP associated CC with certain disorders, for genetic mapping, and for gene therapy. The CC vector containing NgR3 is useful for producing non-human transgenic CC animals. The NgR3 binding antibody is useful for isolating and purifying CC NgR3, for localisation and/or quantitation of NgR3, and for diagnostic CC and therapeutic purposes. The sequences of the invention, vectors and CC antibodies are useful for treating or preventing unregulated cellular CC growth such as cancer and tumour growth. This polynucleotide sequence CC represents the human NgR2 cDNA sequence derived from the genomic sequence CC AC013606 of the invention

Sequence 1260 BP; 170 A; 524 C; 364 G; 202 T; 0 U; 0 Other;

Alignment Scores:

XX SQ

Pred. No.: 1.84e-129 Length: 1260 Score: 2226.00 Matches: 420 Percent Similarity: 100.00% Conservative: 0 Best Local Similarity: 0 Mismatches: 100.00% Query Match: 100.00% Indels: 0 DB: Gaps: 0

US-10-735-256-2 (1-420) x AAL38333 (1-1260)

Qy	1	MetLeuProGlyLeuArgArgLeuLeuGlnAlaProAlaSerAlaCysLeuLeuLeuMet 20	
Db	1	ATGCTGCCGGGCTCAGGCGCCTGCTGATG 60	
Qy	21	LeuLeuAlaLeuProLeuAlaAlaProSerCysProMetLeuCysThrCysTyrSerSer 40	
Db	61	CTCCTGGCCCTGCCCCCAGCTGCCCCATGCTCTGCACCTGCTACTCATCC 120	I
Qy	41	ProProThrValSerCysGlnAlaAsnAsnPheSerSerValProLeuSerLeuProPro 60	
Db	121	CCGCCCACCGTGAGCTGCCAGGCCAACAACTTCTCCTCTGTGCCGCTGTCCCTGCCACCC 180	ŀ
Qy	61	SerThrGlnArgLeuPheLeuGlnAsnAsnLeuIleArgThrLeuArgProGlyThrPhe 80	
Db	181	AGCACTCAGCGACTCTTCCTGCAGAACAACCTCATCCGCACGCTGCGGCCAGGCACCTTT 240)
Qy	81	GlySerAsnLeuLeuThrLeuTrpLeuPheSerAsnAsnLeuSerThrIleTyrProGly 100)

OM protein - nucleic search, using frame plus p2n model

Run on: September 3, 2005, 02:31:26; Search time 223 Seconds

(without alignments)

3081.777 Million cell updates/sec

Title: US-10-735-256-2

Perfect score: 2226

Sequence: 1 MLPGLRRLLQAPASACLLLM.....LSAGLPSPLLCLLLLVPHHL 420

Scoring table: BLOSUM62

 Xgapop
 10.0 , Xgapext
 0.5

 Ygapop
 10.0 , Ygapext
 0.5

 Fgapop
 6.0 , Fgapext
 7.0

 Delop
 6.0 , Delext
 7.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

-MODEL=frame+_p2n.model -DEV=xlp

Q=/cgn2_1/USPTO_spool_p/US10735256/runat_02092005_124752_8939/app_query.fasta_1.

-DB=Issued_Patents_NA -QFMT=fastap -SUFFIX=p2n.rni -MINMATCH=0.1 -LOOPCL=0

-LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi

-LIST=45 -DOCALIGN=200 -THR_SCORE=pct -THR_MAX=100 -THR_MIN=0 -ALIGN=15

-MODE=LOCAL -OUTFMT=pto -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000

-USER=US10735256_@CGN_1_1_105_@runat_02092005_124752_8939 -NCPU=6 -ICPU=3

-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG

-DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6

-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued_Patents_NA:*

1: /cgn2_6/ptodata/1/ina/5A_COMB.seq:*

2: /cgn2 6/ptodata/1/ina/5B COMB.seq:*

3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*

4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*

5: /cgn2 6/ptodata/1/ina/PCTUS_COMB.seq:*

6: /cgn2 6/ptodata/1/ina/backfiles1.seg:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

_		*				
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No.	Score	Match	Length	DB	ID	Description
1	1281	57.5	1003	4	US-09-774-639-58	Comiongo 59 Appl
2	825.5	37.1	31391	4	US-09-7/4-639-58 US-09-949-016-14319	Sequence 58, Appl
3	816.5	36.7	1422			Sequence 14319, A
				4	US-09-949-016-2577	Sequence 2577, Ap
4 5	800.5	36.0	1777	4	US-09-461-325-40	Sequence 40, Appl
5 6	800.5	36.0	1777	4	US-10-012-542-40	Sequence 40, Appl
	800.5	36.0	1777	4	US-10-115-123-40	Sequence 40, Appl
7	393.5	17.7	2713	4	US-09-949-016-2833	Sequence 2833, Ap
8	388.5	17.5	32278	4	US-09-949-016-14575	Sequence 14575, A
9	380.5	17.1	2852	3	US-09-063-950-1	Sequence 1, Appli
10	377.5	17.0	9036	4	US-09-949-016-16866	Sequence 16866, A
11	374.5	16.8	2587	4	US-09-949-016-5124	Sequence 5124, Ap
12	370.5	16.6	2019	3	US-09-063-950-3	Sequence 3, Appli
13	338	15.2	2341	4	US-09-520-781-9	Sequence 9, Appli
14	338	15.2	2607	4	US-09-520-781-11	Sequence 11, Appl
15	337.5	15.2	2906	4	US-09-907-794A-291	Sequence 291, App
16	337.5	15.2	2906	4	US-09-905-125A-291	Sequence 291, App
17	337.5	15.2	2906	4	US-09-902-775A-291	Sequence 291, App
18	337.5		2906	4	US-09-906-700-291	Sequence 291, App
19	337.5	15.2	2906	4	US-09-903-603A-291	Sequence 291, App
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; Sequence 58, Application US/09774639
; Patent No. 6806351
; GENERAL INFORMATION:
  APPLICANT: Rosen et al.
  TITLE OF INVENTION: 90 Human Secreted Proteins
  FILE REFERENCE: PZ013P1
  CURRENT APPLICATION NUMBER: US/09/774,639
  CURRENT FILING DATE: 2001-07-09
  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/244,112
  PRIOR FILING DATE: EARLIER FILING DATE: 1999-02-04
  NUMBER OF SEQ ID NOS: 371
  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 58
   LENGTH: 1003
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   ORGANISM: Homo sapiens
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OM protein - nucleic search, using frame plus p2n model

Run on: September 3, 2005, 02:41:31; Search time 728 Seconds

(without alignments)

3778.219 Million cell updates/sec

Title: US-10-735-256-2

Perfect score: 2226

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Searched: 7338684 seqs, 3274456166 residues

Total number of hits satisfying chosen parameters: 14677368

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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	4	1822.5	81.9	1598	17	US-10-188-248-37	Sequence 37, Appl
	5	1342.5	60.3	143899	10	US-09-972-546-15	Sequence 15, Appl
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RESULT 1

US-09-972-546-1

- ; Sequence 1, Application US/09972546
- ; Publication No. US20030124704A1
- ; GENERAL INFORMATION:
- APPLICANT: STRITTMATTER, STEPHEN M.
- APPLICANT: CATE, RICHARD L.
- APPLICANT: SAH, DINAH W.Y.
- TITLE OF INVENTION: NOGO RECEPTOR HOMOLOGS
- FILE REFERENCE: A116US
- CURRENT APPLICATION NUMBER: US/09/972,546
- CURRENT FILING DATE: 2001-10-06
- PRIOR APPLICATION NUMBER: 60/238,361
- PRIOR FILING DATE: 2000-10-06
- NUMBER OF SEQ ID NOS: 19
- SOFTWARE: PatentIn Ver. 2.1
- SEQ ID NO 1
- LENGTH: 1260
- TYPE: DNA
- ORGANISM: Homo sapiens

US-09-972-546-1

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; Publication No. US20050048520A1
; GENERAL INFORMATION:
  APPLICANT: STRITTMATTER, STEPHEN M.
  APPLICANT: CATE, RICHARD L.
  APPLICANT: SAH, DINAH W.Y.
  TITLE OF INVENTION: NOGO RECEPTOR HOMOLOGS
  FILE REFERENCE: Al16 CON
  CURRENT APPLICATION NUMBER: US/10/735,256
  CURRENT FILING DATE: 2003-12-12
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  PRIOR FILING DATE: 2001-10-06
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Maximum Match 100%

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3: gb htc:*

4: gb est3:*

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6: gb est5:*

7: gb_est6:*

8: gb_gssl:* 9: gb_gss2:* Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

윻 Result Query No. Score Match Length DB ID Description ______ 1202 54.0 751 5 BU707423 1133 50.9 668 6 CD579270 BU707423 UI-M-FR0-2 CD579270 EST PSF00 1046 47.0 624 4 BM545193 976 43.8 565 1 AI346757 3 BM545193 AGENCOURT AI346757 qp52h01.x AL834409 Homo sapi 937 42.1 3117 3 HSM805493 AL834409 Homo sapi AK033286 Mus muscu BF115984 7n75h04.x 5 916 41.2 2442 3 AK033286 915 41.1 535 2 BF115984 911.5 40.9 642 1 AB083071 889 39.9 655 5 BU620649 6 muscu br115984 7n75h04.x AB083071 AB083071 BU620649 UI-H-FL1-BF041921 7 С 8 C 9 889 39.9 655 5 BUG20649 BUG20649 UT-H-FLI10 878 39.4 539 2 BF041921 B BU620649 UI-H-FL1-9 C 10 878 39.4 539 2 BF041921 BF041921 BP250006A

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RESULT 1
BU707423
LOCUS
            BU707423
                                     751 bp
                                               mRNA
                                                        linear
                                                                 EST 15-JUL-2003
DEFINITION
           UI-M-FR0-cap-e-04-0-UI.rl NIH BMAP FR0 Mus musculus cDNA clone
            IMAGE: 6415467 5', mRNA sequence.
ACCESSION
            BU707423
VERSION
            BU707423.1 GI:23638879
KEYWORDS
            EST.
SOURCE
            Mus musculus (house mouse)
  ORGANISM Mus musculus
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
               (bases 1 to 751)
  AUTHORS
            NIH-MGC http://mgc.nci.nih.gov/.
  TITLE
            National Institutes of Health, Mammalian Gene Collection (MGC)
  JOURNAL
            Unpublished (1999)
COMMENT
            Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: Dr. Jim Lin, University of Iowa
             cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
             cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
             DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
             Clone Distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
             This clone was contributed by the Brain Molecular Anatomy Project
            (BMAP)
            Seq primer: pYX-5.
FEATURES
                     Location/Qualifiers
                     1. .751
     source
                     /organism="Mus musculus"
                     /mol_type="mRNA"
                     /strain="C57BL/6"
                     /db xref="taxon:10090"
                     /clone="IMAGE:6415467"
                     /tissue_type="whole brain"
                     /dev stage="embryo 13.5,14.5,16.5,17.5dpc"
                     /lab host="DH10B (T1 phage resistant)"
                     /clone lib="NIH BMAP FR0"
                     /note="Organ: Brain; Vector: pYX- Asc; Site 1: EcoR I;
                     Site 2: Not I; The library was constructed according
                     Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
                     1996. Denatured RNA was size fractionated on a 1% agarose
                     gel. First strand cDNA synthesis was primed with oligo-dT
                     primer containing a Not I site. Double strand cDNA was
                     size selected according to mRNA size fraction, ligated
                     with EcoR I adaptor, digested with NotI and then cloned
                     directionally into pYX-Asc vector. The library tag
                     sequence located between the Not I site and the polyA tail
                     is AGCGAGACAG. This library was created for the University
                     Iowa Brain Anatomy Project (BMAP): 'Gene Discovery in the
                     Developing Mouse Nervous System', supported by National
                     Institute of Mental Health (NIMH), Hemin Chin, Ph.D.,
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program coordinator."